

The lightweight easy-to-use Multirotor for affordable professional imagery

Fox4 is the lightweight multirotor drone with 4 carbon blades. Its light structure and engine allows for extreme maneuverability and ease of use with manual or automatic piloting. Designed for photogrammetry missions up to 20 ha, Fox4 may also carry out missions for inspection of infrastructure, structures, network lines or industrial sites.



Lightweight & easy-to-use

- Less than 5kg with casino
- Less than 3 minutes setting up
- Full automatic take-off, landing and navigatior
- Wind resistant 50km/h

Professional imagery

- Centimeter grade GSD imagery resolution
- Direct Georeferencing RTK/PPK feature (DroneBox RTK)
- RGB and thermal camera options



Fox⁴

Powered by DroneBox

DroneBox incorporates the navigation function with GNSS and inertial sensors, the communication modules hosting the powerful firmware for all critical functions such as sensors and communication management, as well as data logging.

DroneBox is the "plug & play" precision navigation and measurement device usable across the Heliceo product range. Moving a single DroneBox around allows to optimize the investment performing data acquisition with multiple vehicles and sensors.

DroneBox comes in 2 options i.e DroneBox Slim for meter positioning accuracy and DroneBox RTK for centimeter GNSS positioning allowing direct georeferencing without need for ground control points (GCP).



Features	DroneBox Slim	DroneBox RTK		
Hardware				
 Material 	Composite & ABS	Composite & ABS		
 Dimensions 	130 x 170 x 270 (mm)	130 x 170 x 270 (mm)		
 Weight 	0,550 Kg	0,667 Kg		
 Temperature range 	-10 °C to +60°C	-10 °C to +60°C		
Navigation				
 Satellites 	Single band L1 GPS Navigation	Dual band L1/L2 GPS/Glonass		
• RTK	No	Yes		
• PPK	No	Yes		
 Precision 	1 to 3 m	0,03 m X-Y; 0,05 m Z		
• IMU	MEMS 3D Attitude 1 °	MEMS 3D Attitude 1 °		
Firmware				
 Flight management 	Autopiloting, navigation, flight plan change,	Autopiloting, navigation, flight plan change,		
 Communication management 	GNSS board, camera, inertial components, time synchronization and others.	Positions, photos, time, inertial data and others.		
Data logging	On-board autopilot, Telemetry, GNSS,	On-board autopilot, Telemetry, GNSS,		

Features

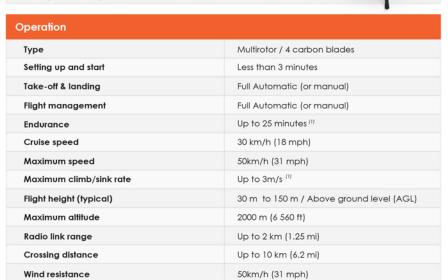
Key features

Temperature range





Very short set-up time, less than 3 minutes



- 10 °C to +45°C

Hardware & Communication		
Material	Carbon structure, Aluminium gimbal, Composite DroneBox	
Dimensions	0,860m x 1,050m x 0,530m	
Motors	4 brushless motors	
Weight		
Without payload	4.0kg	
Max Take-off (MTOW)	5.0kg	
Max Payload	0.3kg	
Gimbal	Frontal Gyroscope controlled 2 axis	
Batteries	Lithium - 2 x 5000 mAh	
Parachute (option)	Mechanical (2s) or Pyrotechnic (1.5s)	
Radios		
Remote control	2.4 GHz and others (please ask)	
o Telemetry	433-868-933 Mhz and others (please ask)	
Mission modes	Manual ; Stabilize ; Auto ; Loiter ; Alt Hold ; RTL	

Data collection & Software		
Payloads	Canon lxus 160 20 Mpxl, and others (please ask)	
Typical scanning area	Up to 20 ha (49 acres)	
Software		
Mission Planning	HASK - Planner	
GNSS Processing	HASK - Geoprocessor	
 Image processing (option) 	Pix4DMapper Pro or MicMac or others	
Output data	Image files, log data Densified cloud 3D data (LAS, LAZ, PLY, XYZ) 3D textured mesh (FBX, OBJ, DXF, PLY, 3D PDF) Orthophotos (GEOTIFF), Digital Terrain Model DSM & DTM (XYZ, LAS, LAZ) Contour lines (SHP, PDF, DXF)	

- (1) Weather and playload dependant
- (2) Flight 150m AGL

